PATENT COOPERATION TO SATY

From the INTERNATIONAL SEARCHING AUTHO	ORITY				
То:		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORIT (PCT Rule 43bis.1)			
see form PCT/ISA/220	INT				
	1 1	of mailing nonth/year) see form PCT/ISA/210 (second sheet)			
Applicant's or agent's file reference see form PCT/ISA/220	f	FOR FURTHER ACTION See paragraph 2 below			
International application No. PCT/US2004/000858	International filing date (day/mont 14.01.2004	h/year) Priority date (day/month/year) 14.01.2003			
International Patent Classification (IPC) or t H04J3/06, G06F1/14, G04G7/00	poth national classification and IPC				
Applicant HONEYWELL INTERNATIONAL II	NC.				
This opinion contains indication	ons relating to the following i	ems:			
☑ Box No. I Basis of the opi☑ Box No. II Priority	inion				
☐ Box No. III Non-establishm☐ Box No. IV Lack of unity of		velty, inventive step and industrial applicability			

FURTHER ACTION

Box No. V

☐ Box No. VI

☑ Box No. VII

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

applicability; citations and explanations supporting such statement

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Certain documents cited

☐ Box No. VIII Certain observations on the international application

Certain defects in the international application

Authorized Officer

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/000858

_	Box N	o. I Basis of the opinion					
1.	. With regard to the language , this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.						
	la	nis opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).					
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type of material:						
		a sequence listing					
		table(s) related to the sequence listing					
b. format of material:							
		in written format					
		in computer readable form					
	c. time	of filing/furnishing:					
		contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
3.	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional poies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.					
4.	. Additional comments:						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/000858

_	Box	No. II	Priority			·	· · · · · · · · · · · · · · · · · · ·
1.	⊠	The fo	llowing document h	nas not be	en furnishe	d:	
		\boxtimes	copy of the earlier	r applicatio	n whose p	riority has bee	en claimed (Rule 43 <i>bis</i> .1 and 66.7(a)).
			translation of the	earlier app	lication wh	ose priority ha	as been claimed (Rule 43 <i>bis</i> .1 and 66.7(b)).
							ty of the priority claim. This opinion has elevant date is the claimed priority date.
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.						
3.	Add	litional o	observations, if nec	essary:			
					·		
		No. V	Reasoned state	ement und	er Rule 43	bis.1(a)(i) with the supporting	ith regard to novelty, inventive step or
1.	Stat	ement					
	Nov	elty (N)		Yes: No:	Claims Claims	1-10	
	Inve	ntive st	ep (IS)	Yes:	Claims		
				No:	Claims	1-10	
	Indu	strial ap	oplicability (IA)	Yes: No:	Claims Claims	1-10	· ,
2.	Citat	tions an	d explanations				
	see	separa	te sheet				
	Вох	No. VII	Certain defects	in the int	ernational	application	

The following defects in the form or contents of the international application have been noted:

see separate sheet

Re Item V.

1 The following documents are referred to in this communication:

D1: EP 0 809 374 A (LANDIS &; GYR TECH INNOVAT) 26 November 1997

(1997-11-26)

D2: US 5 661 700 A (WEPPLER ROBERT C) 26 August 1997 (1997-08-26)

D3: US-A-5 276 659 (KOTAKI KOJI) 4 January 1994 (1994-01-04)

2 INDEPENDENT CLAIM 1

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claim 1 does not involve an inventive step in the sense of Article 33(3)PCT.

2.1.1 Document D1, which is considered to represent the most relevant state of the art to the subject matter of claim 1, discloses (the references in parenthesis applying to this document; features not disclosed are in strikeout):

A method for controlling a time synchronization relationship between a communications network time (FZ) and a module located at a node (FU1..FUN) connected to said communications network for providing a module reference time

(Abstract, Fig.1, Fig.2), said method comprising:

determining a time synchronization function is enabled (col.4, lines 11-17)

determining a time difference (Δt) between said communications network time and said module reference time provided by said module

determining that said determined time difference is greater than a first limit (P1), and less than or equal to a second limit (P2); and

gradually adjusting, automatically, said communications network time to synchronize with said module reference time over a predetermined synchronization interval.

- 2.1.2 The subject-matter of independent claim 1 differs from the disclosure of D1 in that it provides a gradual adjustment of the time to be synchronized. D1 only discloses that the error is adjustment by a single correction step
- 2.1.3 The problem to be solved by the present invention may therefore be regarded as to avoid gaps in the synchronized time.
- 2.1.4 In view of D2 the solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) because D2 discloses (col.2, lines 46-52; Table 1) an automatic gradual adjustment of the time to be synchronized
 - 2.1.5 Therefore the features disclosed in D1 and D2 would be combined by the skilled person, without exercise of any inventive skills in order to solve the problem posed. The proposed solution in independent claim 1 thus cannot be considered inventive (Article 33(3) PCT).
- 2.1.6 Also In view of D3 the solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) because D3 discloses (Claim 1; col.3, lines 8-26) an automatic gradual adjustment of the time to be synchronized
- 2.1.5 Therefore the features disclosed in D1 and D3 would be combined by the skilled person, without exercise of any inventive skills in order to solve the problem posed. The proposed solution in independent claim 1 thus cannot be considered inventive (Article 33(3) PCT).

3 INDEPENDENT CLAIM 7

3.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claim 7 does not involve an inventive step in the sense of Article 33(3)PCT as it only refers to a device ("module") corresponding to the method of claim 1. The reasoning of lack of inventive step as presented in §2 above applies accordingly to claim 7.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/000858

4 DEPENDENT CLAIMS 2-6, 8-10

Dependent claims 2-6, 8-10 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

Re Item VII.

Claims 8-10 have to be referenced to claim 7 and not to claim 12 or claim 14, which both do not exist.